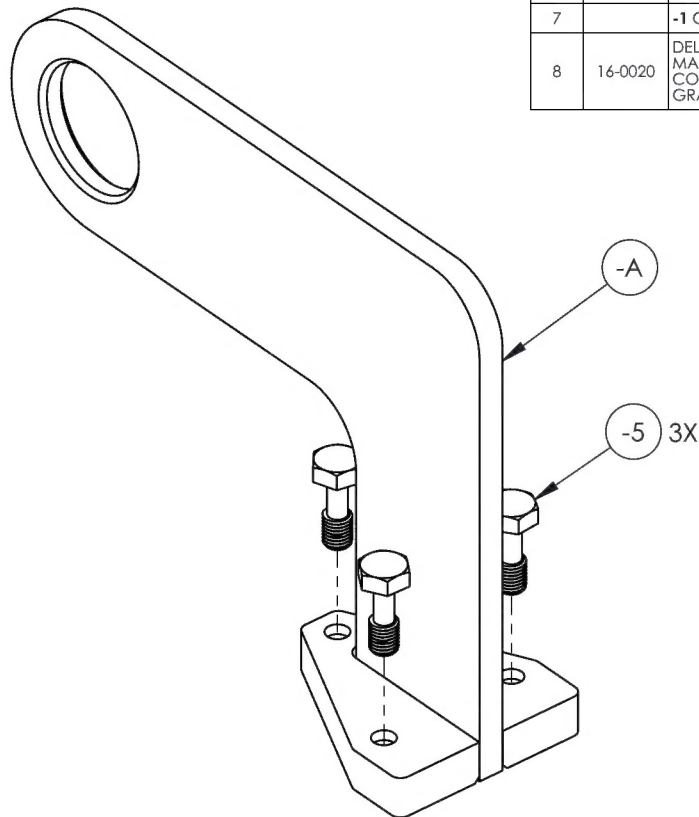


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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-1 CH'D SLOT WIDTH FROM 1/4 in. TO .313. -3 CH'D THICKNESS FROM 1/4 in.	6/22/2007	WP	DW
2		DELETED ENGINE ENGRAVING, ADDED TAG & WORKING LIMIT.	8/15/2007	WP	DW
3		ADDED NEW TITLEBLOCK & BOM, ADDED SECOND PAGE.	8/21/2007	WP	DW
4		ADDED NOTES BELOW.	4/21/2008	WP	DW
5		-A ADDED ENGINE LIFT WELDMENT TO BOM DUE TO ACCESS FROM CUSTOMER PARTS DWG.	4/30/2009	WP	RW
6		-3 CH'D CHAMFER FROM .032 TO .062 X 45°.	11/4/2009	RJC	RW
6A		-3 ADDED SWL ENGRAVING WAS 300 LBS. IS 375 LBS.	9/20/2010	WP	RW
6B		-A ADDED ENGINE LIFT WELDMENT DWG., CH'D FINISH FROM BLACK OXIDE TO BLACK ZINC. -3 CH'D ENGRAVE NOTES.	8/26/2011	RJC	RW
6C		-5 CH'D FROM PLAIN TO S.S.& ADDED P/N.	8/30/2011	RJC	SE
7		-1 CH'D DIM FROM 2.000 TO 2.00. -3 CH'D MATERIAL THICKNESS FROM .312.	5/10/2012	RJC	GE
8	16-0020	DELETED NOTE 3 SHT ONE. -1 CH'D DIM WAS .313 S.F. -3 IS .318 +.010-.000, WAS .500 IS .50. CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR. -3 CH'D NOTE WAS ENGRAVE P/N: RBT18645, S/N, CAGE CODE: AE1A0. MADE IN USA TO FIT IS ENGRAVE PER WORK ORDER. CH'D MATERIAL WAS A709 GRADE 36 IS A36/1018/1020 HR.	2/4/2016	RJC	JAG



NOTE:

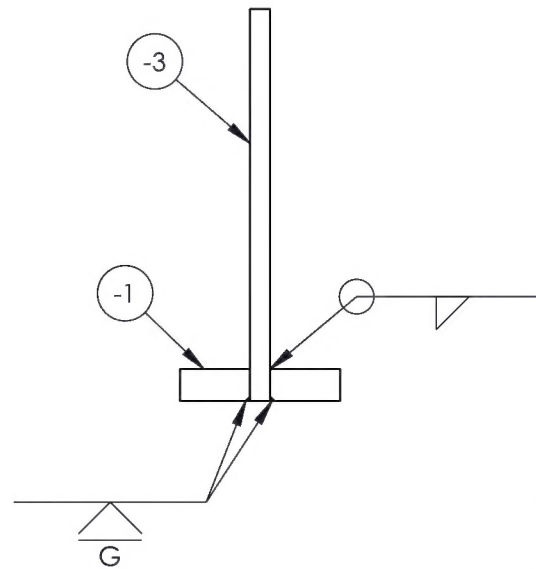
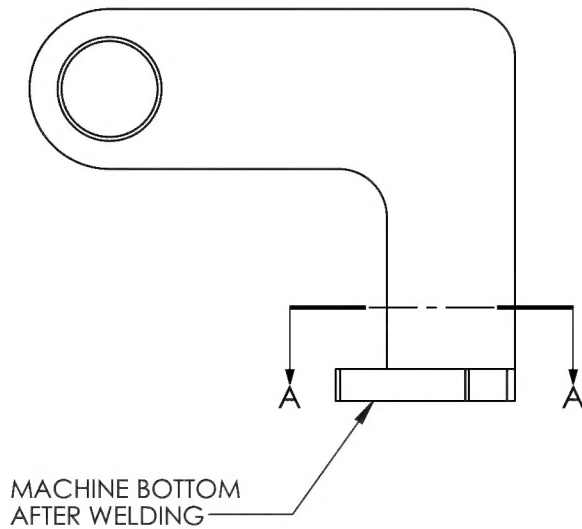
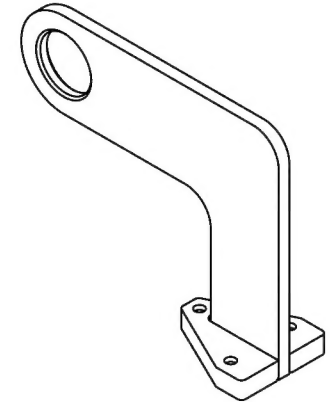
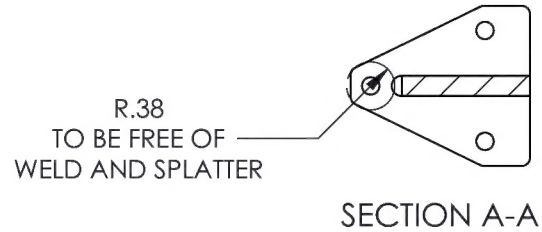
1. THIS ASSY. IS USED AS THE TOP MOUNT ENGINE ASSY. LIFT ON THE SCHWEIZER 330 & FIRE SCOUT MODELS.
2. WEIGHT TEST TO 750 LBS.

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
	X		-A	1	ENGINE LIFT WELDMENT			2
	1		-1		BASE	A36/1018/1020 HR		3
	1		-3		EYE PLATE	A36/1018/1020 HR		4
			-5	3	HEX HEAD CAP SCREW	S.S.	5/16-24 X 7/8 (MCMASTER-CAR #92240A304) MODIFIED	5
	ASSY -A							

DART AEROSPACE																	
TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY																	
DWG NO. RBT18645	REV 8																
<table border="1"> <tr> <td>MAT'L</td> <td>UNLESS OTHERWISE SPECIFIED</td> </tr> <tr> <td>HEAT TREAT</td> <td>DIMENSIONS ARE IN INCHES</td> </tr> <tr> <td>FINISH</td> <td>.XXX ± .005 FRACTIONS ± 1/8</td> </tr> <tr> <td></td> <td>.XX ± .01 ANGLES ± 5°</td> </tr> <tr> <td></td> <td>.X ± .1 SURFACES = 125/✓</td> </tr> <tr> <td>SPEC</td> <td>1. BREAK ALL SHARP EDGES .015 x 45° OR .015R</td> </tr> <tr> <td></td> <td>2. DIMENSIONAL LIMITS APPLY AFTER PLATING</td> </tr> <tr> <td></td> <td>3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009</td> </tr> </table>		MAT'L	UNLESS OTHERWISE SPECIFIED	HEAT TREAT	DIMENSIONS ARE IN INCHES	FINISH	.XXX ± .005 FRACTIONS ± 1/8		.XX ± .01 ANGLES ± 5°		.X ± .1 SURFACES = 125/✓	SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R		2. DIMENSIONAL LIMITS APPLY AFTER PLATING		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
MAT'L	UNLESS OTHERWISE SPECIFIED																
HEAT TREAT	DIMENSIONS ARE IN INCHES																
FINISH	.XXX ± .005 FRACTIONS ± 1/8																
	.XX ± .01 ANGLES ± 5°																
	.X ± .1 SURFACES = 125/✓																
SPEC	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R																
	2. DIMENSIONAL LIMITS APPLY AFTER PLATING																
	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009																
DRAWN BY: PERRITT	USED ON MODEL																
CHECKED: DUERFELDT	SEE NOTE SHT 1																
OPPS APPR: ANDERSON																	
QA APPR: LINDSAY																	
APPROVED: GILBERT																	
SCALE 1:2	DATE 6/1/2007																
SHEET 1 OF 7																	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
5		-A ADDED ENGINE LIFT WELDMENT TO BOM DUE TO ACCESS FROM CUSTOMER PARTS DWG.	4/30/2009	WP	RW
6B		-A ADDED ENGINE LIFT WELDMENT DWG., CH'D FINISH FROM BLACK OXIDE TO BLACK ZINC.	8/26/2011	RJC	RW

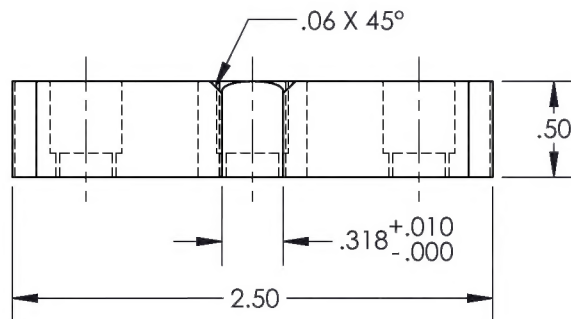
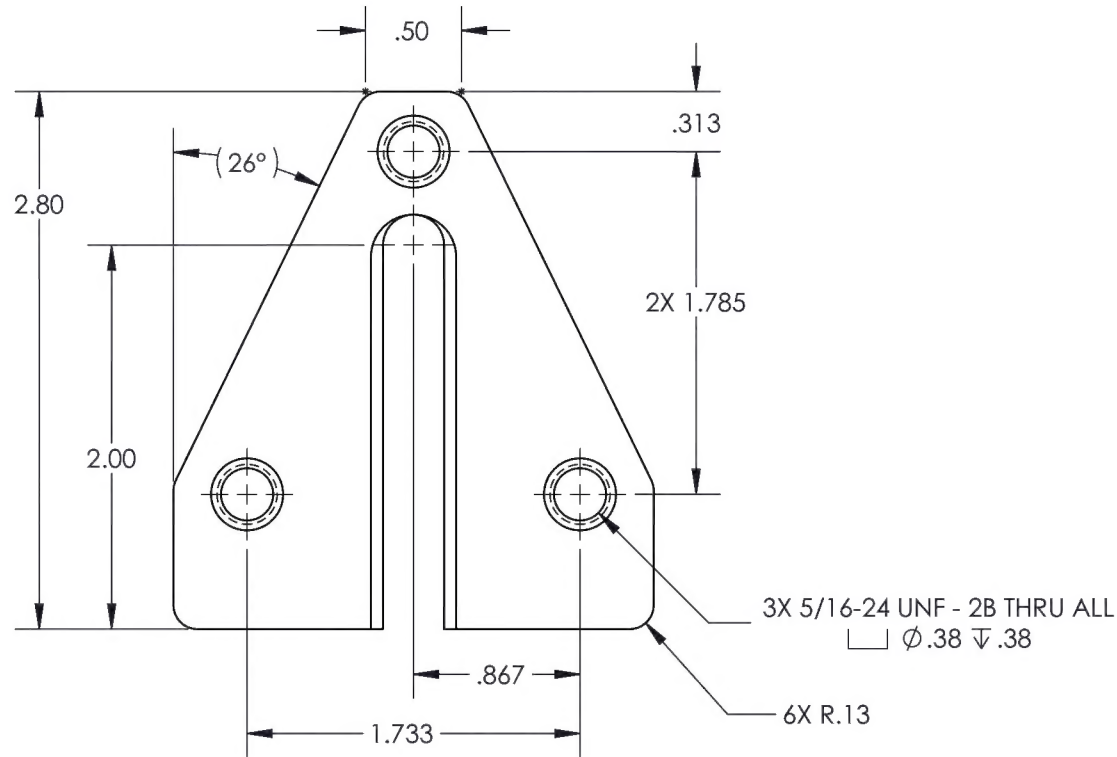


(-A)
ENGINE LIFT WELDMENT

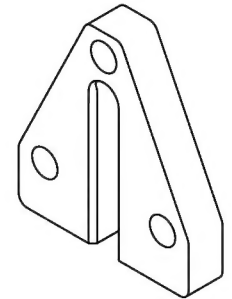
DART AEROSPACE	
TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY	
DWG NO. RBT18645-A	REV 8
MAT'L ASTM B633 TYPE I SC 2	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .010 FRACTIONS ± 1/8 .XX ± .03 ANGLES ± 1° .X ± .1 SURFACES = 125°
HEAT TREAT ZINC PLATE	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: PERRITT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: DUERFELDT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: ANDERSON	USED ON MODEL
APPROVED: LINDSAY	SEE NOTE SHT 1
SCALE 1:3	DATE 6/1/2007
SHEET 2 OF 7	

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-1 CH'D SLOT WIDTH FROM 1/4 in. TO .313.	6/22/2007	WP	DW
7		-1 CH'D DIM FROM 2.000 TO 2.00.	5/10/2012	RJC	GE
8	16-0020	-1 CH'D DIM WAS .313 S.F. -3 IS .318 +.010-.000, WAS .500 IS .50. CH'D MATERIAL WAS 1018 IS A36/1018/1020 HR.	2/4/2016	RJC	JAG



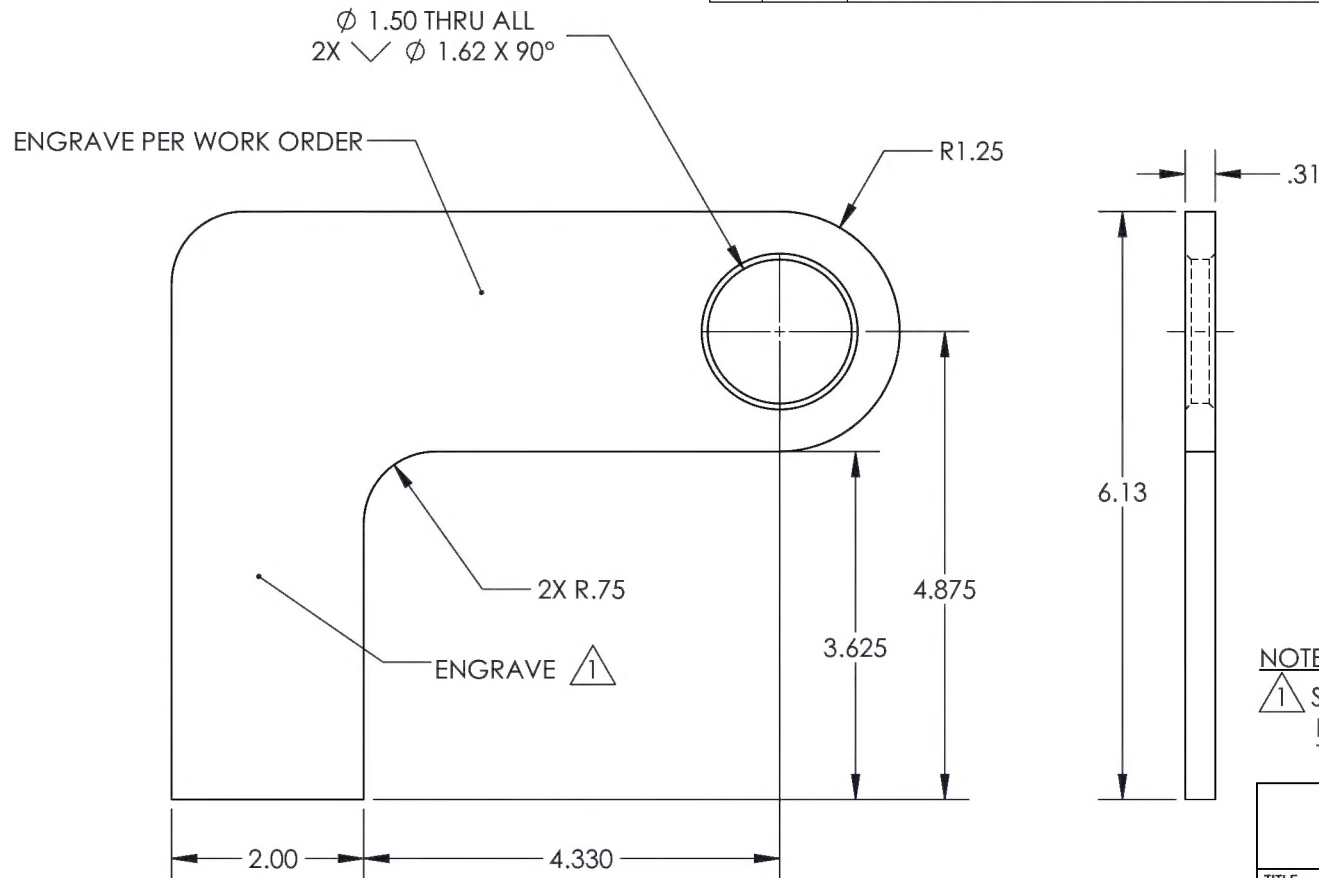
(-1)
 BASE



DART AEROSPACE	
TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY	
DWG NO. RBT18645-1	REV 8
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -A	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125° ✓
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:1	DATE 6/1/2007
	SHEET 3 OF 7

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REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
1		-3 CH'D THICKNESS FROM 1/4 IN.	6/22/2007	WP	DW
6		-3 CH'D CHAMFER FROM .032 TO .062 X 45°.	11/4/2009	RJC	RW
6A		-3 ADDED SWL ENGRAVING WAS 300 LBS. IS 375 LBS.	9/2/2010	WP	RW
6B		-3 CH'D ENGRAVE NOTES.	8/26/2011	RJC	RW
7		-3 CH'D MATERIAL THICKNESS FROM .312.	5/10/2012	RJC	GE
8	16-0020	-3 CH'D NOTE WAS ENGRAVE P/N: RBT18645, S/N, CAGE CODE: AE1A0, MADE IN USA TO FIT IS ENGRAVE PER WORK ORDER. CH'D MATERIAL WAS A709 GRADE 36 IS A36/1018/1020 HR.	2/4/2016	RJC	JAG



NOTE:

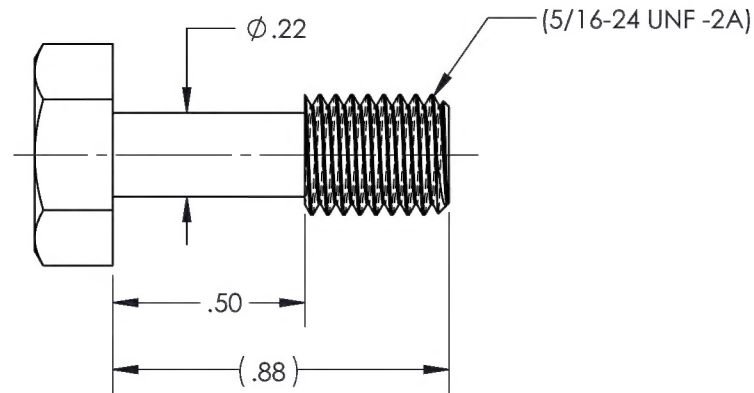
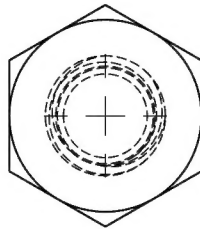
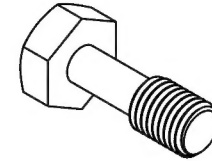
1 SWL = 375 LBS.
LOAD TESTED = 750 LBS.
TEST DATE = --/--/----

(-3)
EYE PLATE

DART AEROSPACE	
TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY	
DWG NO. RBT18645-3	REV 8
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH SEE -A	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE 1:2	DATE 6/1/2007
	SHEET 4 OF 7

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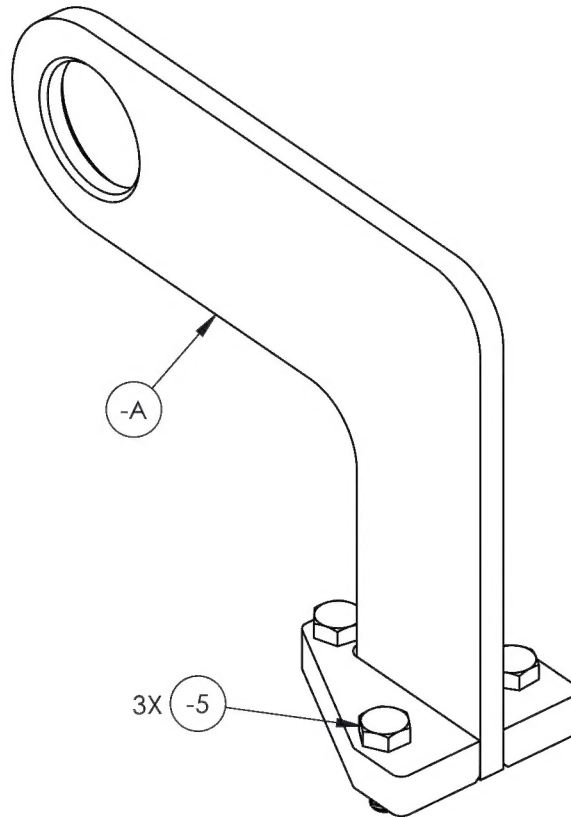
REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
6C		-5 CH'D FROM PLAIN TO S.S.& ADDED P/N.	8/30/2011	RJC	SE



(-5)
HEX HEAD CAP SCREW

DART AEROSPACE	
TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY	
DWG NO. RBT18645-5	REV 8
MAT'L S.S.	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125°
DRAWN BY: PERRITT	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
SCALE	USED ON MODEL
2:1	SEE NOTE SHT 1
DATE	
6/1/2007	
	SHEET 5 OF 7

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NOTE:
1. THE RBT18645 LIFTING ASSEMBLY CAN BE USED ON THE SCHWEIZER 330 TOP MOUNT & THE R.R. C18 & C20 USING THE BOTTOM MOUNT POSITION.

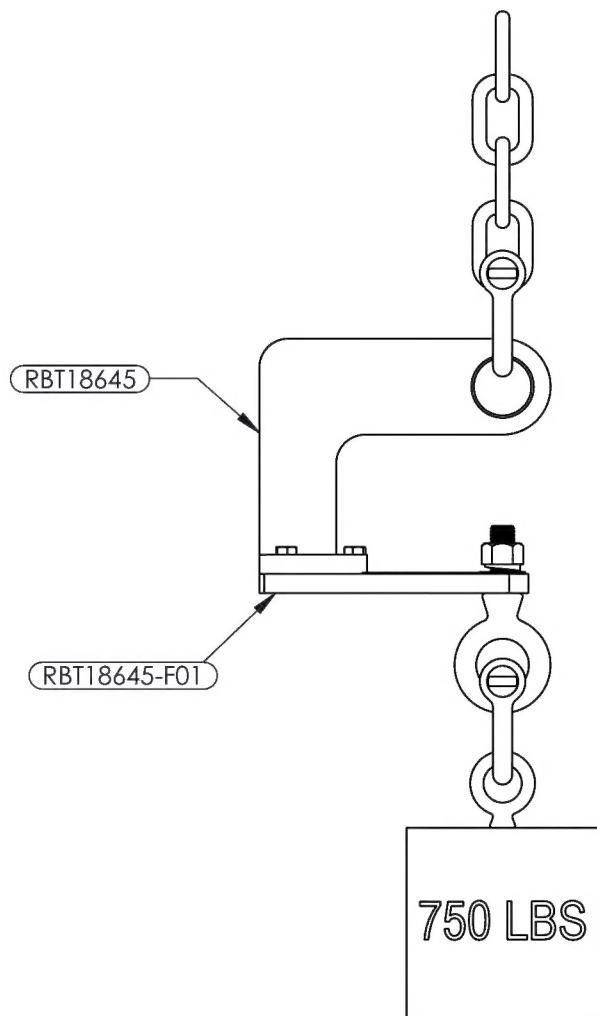


190 S. Danebo Ave., Eugene, OR. 97402
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e-mail: sales@dartaero.com
dartaerospace.com

TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY			
DWG NO.	RBT18645	REV	CUSTOMER 1 OF 1
SCALE	1:2	DATE	6/1/2007
		SHEET	6 OF 7

Part #	UNIT QTY	Description
-A	1	ENGINE LIFT WELDMENT
-5	3	HEX HEAD CAP SCREW

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INSPECTION AND TESTING PROCEDURES FOR THE RBT18645, FIRE SCOUT ENGINE LIFT ASSEMBLY. THIS ASSEMBLY IS DESIGNED TO LIFT THE FIRE SCOUT ENGINE ASSEMBLY. THIS ASSEMBLY MUST BE INSPECTED BEFORE EACH USE. REPLACE ANY ITEMS THAT ARE DAMAGED OR SUSPECTED OF DAMAGE BEFORE USING!

91 DAY INSPECTIONS

1. CLEAN ENTIRE UNIT AND REMOVE ANY CORROSION.
2. INSPECT THE EYE PLATE FOR STRESS CRACKS, BENDING, OR DISTORTION.
3. INSPECT THE WELDS FOR CRACKS OR DISTORTION.
4. INSPECT ALL BOLTS FOR DAMAGED THREADS, STRESS CRACKS, STRETCHING OR DISTORTION.
5. REPAINT IF NECESSARY.

IF ANY OF THE ABOVE CONDITIONS EXIST, OR ARE SUSPECTED OF EXISTING DO NOT USE THE TOOL UNTIL IT HAS BEEN REPAIRED AND TESTED OR REPLACED.

3 YEAR WEIGHT TESTING

1. AFTER INSPECTION SECURELY FASTEN THE RBT18645 ASSEMBLY TO THE RBT18645-F01 TESTING PLATE USING EXISTING BOLTS.
2. USING THE APPROPRIATE SHACKLES AND CHAIN (2 TON MINIMUM PREFERRED) ATTACH THE TESTING PLATE TO A 750 POUND TEST WEIGHT. ATTACH THE LIFTING EYE TO A CRANE (2 TON MINIMUM PREFERRED) OR OTHER COMPATIBLE LIFTING DEVICE.
3. CAREFULLY LIFT UNTIL THE TEST WEIGHT IS APPROXIMATELY ONE FOOT OF THE GROUND.
4. LEAVE THE WEIGHT SUSPENDED FOR 5 MINUTES. WHILE THE WEIGHT IS SUSPENDED CAREFULLY OBSERVE THE RBT18645 LIFT ASSEMBLY FOR ANY DEFLECTION AND DISTORTION.
5. AFTER 5 MINUTES, LOWER AND DISCONNECT THE TEST WEIGHT, SHACKLES, AND CHAIN. RE-INSPECT THE LIFTING ASSEMBLY.

NOTE:

1. THIS ASSY. IS USED AS THE TOP MOUNT ENGINE ASSEMBLY LIFT ON THE SCHWEIZER 330 & FIRE SCOUT MODELS.



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e-mail: sales@dartaero.com
dartaerospace.com

TITLE FIRE SCOUT ENGINE LIFT ASSEMBLY			
DWG NO.	RBT18645	REV	8
SCALE	1:5	DATE	9/20/2010
CUSTOMER 1 OF 1		SHEET 7 OF 7	